

CIRCUIT BREAKER 400V 10KA, 2-POLE, A, 4A,  
D=70MM

Model		
product brand name		SENTRON
Product designation		5SY miniature circuit breaker
Design of the product		5SY miniature circuit breakers
General technical data		
Number of poles		2
Number of poles / Note		2P
Tripping characteristic class		A
circuit-breaker / Design		5SY4
Mechanical service life (switching cycles) / typical		20 000
Overvoltage category		3
Voltage		
Type of voltage		AC/DC
Insulation voltage		
<ul style="list-style-type: none"> <li>with multi-phase operation / at AC / Rated value</li> </ul>	V	440
Supply voltage		
Supply voltage / at AC / Rated value	V	400
Supply voltage frequency / Rated value	Hz	50
Protection class		
Protection class IP		IP20, with connected conductors
Energy limiting class		3
Switching capacity		
Switching capacity current		
<ul style="list-style-type: none"> <li>at DC / acc. to IEC 60947-2 / Rated value</li> </ul>	kA	15
<ul style="list-style-type: none"> <li>acc. to EN 60898 / Rated value</li> </ul>	kA	10
<ul style="list-style-type: none"> <li>acc. to IEC 60947-2 / Rated value</li> </ul>	kA	35
Dissipation		
Active power loss		
<ul style="list-style-type: none"> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	W	2.3
Electricity		
rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel	A	3.76

Current / at AC / Rated value	A	4
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### Product details

Product feature / Touch protection		Yes
<b>Product component</b>		
• combined terminal top		Yes
• combined terminal bottom		Yes
<b>Product property</b>		
• Properties for main switches in accordance with EN 60204-1		Yes
• halogen-free		Yes
• sealable		Yes
• silicon-free		Yes
Product expansion / can be installed / supplementary devices		Yes

### Product function

Product function / neutral conductor switching		No
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### Short circuit

<b>Breaking capacity short-circuit current (I<sub>cn</sub>)</b>		
• at AC / acc. to UL 1077 and CSA C22.2 No.235	kA	5
• at DC / acc. to EN 60898-2	kA	10

### Number

Number of test cycles / for environmental testing / acc. to IEC 60068-2-30		6
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### Connections

<b>Connectable conductor cross-section / stranded</b>		
• minimum	mm <sup>2</sup>	0.75
• maximum	mm <sup>2</sup>	35
<b>Connectable conductor cross-section</b>		
• solid		
— minimum	mm <sup>2</sup>	0.75
— maximum	mm <sup>2</sup>	35
• finely stranded / with core end processing		
— minimum	mm <sup>2</sup>	0.75
— maximum	mm <sup>2</sup>	25
<b>AWG number / as coded connectable conductor cross section</b>		
• minimum		14
• maximum		4
<b>Tightening torque [lbf-in] / with screw-type terminals</b>		
• minimum	lbf-in	22
• maximum	lbf-in	26

<b>Tightening torque / with screw-type terminals</b>		
• minimum	N·m	2.5
• maximum	N·m	3
Position / of power supply cord		Any

### Mechanical Design

Height	mm	90
Width	mm	36
Depth	mm	76
mounting position		any
Installation depth	mm	70
Number of width units		2
Mounting type		Quick assembly system
Net weight	g	320


### Environmental conditions

Influence of the surrounding temperature		Max. 95% humidity
Shock resistance / acc. to IEC 60068-2-27		150m/s <sup>2</sup> at 11ms half-sine
Vibration resistance / acc. to IEC 60068-2-6		50m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
<b>Ambient temperature</b>		
• minimum	°C	-25
• maximum	°C	55
• during storage / minimum	°C	-40
• during storage / maximum	°C	75

### Certificates

Equipment marking / acc. to DIN EN 61346-2		F
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General Product Approval	Declaration of Conformity	Test Certificates
 CCC  UL  VDE  EAC  EG-Konf.		<a href="#">sonstig</a>

Test Certificates	Shipping Approval
<a href="#">spezielle Prüfbescheinigung</a> <a href="#">n</a>	 DNV

### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)  
<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SY42045>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/5SY42045/all>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**

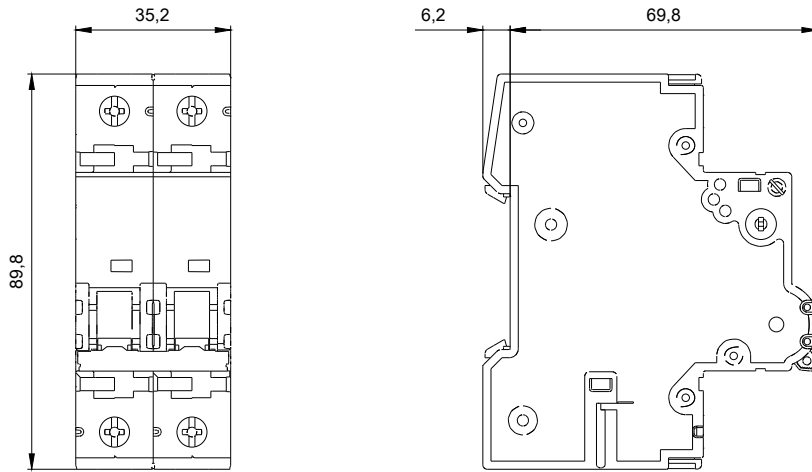
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY42045](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY42045)

**CAX-Online-Generator**

<http://www.siemens.com/cax>

**Tender specifications**

<http://ausschreibungstexte.siemens.com/tiplv>



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